

## OSCILLOSCOPE MEDICAL SCOPEMETER DEVICE

**MANUFACTURER: FLUKE BIOMEDICAL**

**Manufacturer Model# 190M**

**Manufacturer's PHONE: (440) 498-2565 FAX: (440) 498-0000**

**Manufacturer's Website: <http://www.flukebiomedical.com/biomedical/usen/home/>**

**Item Web Link:**

**<http://www.flukebiomedical.com/biomedical/usen/Portable-Oscilloscopes/190M-Medical-ScopeMeter.htm?PID=74319>**

**AAC 'L' ITEM NSN 6625-01-615-2679**

**UAs: T500, T501, T502, T503, T505**

**USAMMA POC: Customer Relationship Management 301-619-1288/4301 - DSN 343-1288/4301**

**UNIT PRICE: \$4,895.00**

**System Description:** The 190M Medical ScopeMeter® Portable Oscilloscope is a high-performance, portable oscilloscope that combines the power of a high performance oscilloscope, multimeter and paperless recorder in one test tool. It is used to calibrate, repair, and/or assess functioning of medical devices and other equipment used in healthcare. The 190M has a CAT III 1000 V/CAT IV 600 V rating. It has increased deep memory: 10,000 point per trace waveform capture, so you can examine very small parts of the waveform in detail. Has new battery door accessibility for battery swap out, and optional charger to have the ability to charge another battery. It is environmentally tested to meet IP-51 dust-proof and drip-proof rating and withstand 3 g vibration or 30 g shock. Has two isolated USB host port for direct data storage to a USB memory device. It also has a security slot: lock down oscilloscope with Kensington R lock while unattended. The 190M has four electrically isolated inputs; 6 in full color lcd w/ LED backlight; resolution: 320 x 240 pixels; rugged, shock-proof w/ integrated protective holster; weight: 4.8 lb.

**Features:**

- The first oscilloscope on the market with CAT III 1000 V/CAT IV 600 V rating
  - Increased deep memory: 10,000 point per trace waveform capture, so you can examine very small parts of the waveform in detail
  - New battery door accessibility for battery swap out, and optional charger to have the ability to charge another battery
  - Environmentally tested to meet IP-51 dust-proof and drip-proof rating and withstand 3 g vibration or 30 g shock
  - Isolated USB host port for direct data storage to a USB memory device
- Security slot: lock down oscilloscope with Kensington R lock while unattended



OSCILLOSCOPE MEDICAL SCOPEMETER DEVICE  
PART # FBC4115804EA  
NSN 6625016152679

**OSCILLOSCOPE MEDICAL SCOPEMETER DEVICE  
PHYSICAL & ENVIRONMENTAL SPECIFICATIONS**

<b>Item Dimensions</b>	<b>Height (Inches)</b>	<b>10.4</b>
	<b>Width (Inches)</b>	<b>2.8</b>
	<b>Length (Inches)</b>	<b>7.5</b>
	<b>Cube (Cubic Feet)</b>	<b>0.1264</b>
	<b>Weight</b>	<b>4.8</b>
<b>Ship Dimensions</b>	<b>Height (Inches)</b>	<b>0</b>
	<b>Width (Inches)</b>	<b>0</b>
	<b>Length (Inches)</b>	<b>0</b>
	<b>Cube (Cubic Feet)</b>	<b>0</b>
	<b>Weight</b>	
<b>Storage Temp</b>		<b>-4 to 140 °F (-20 to 60 °C)</b>
<b>Operating Temp</b>		<b>32 to 104 °F (0 to 40 °C)</b>
<b>Storage Humidity</b>		
<b>Operating Humidity</b>		<b>95 % Non-condensing (See note below for more information)</b>
<b>Amps</b>		
<b>Watts</b>		
<b>Power Requirements</b>	<b>120 VAC ± 10%, 50/60 Hz (for Power Adapter BC190)</b>	
<b>Notes</b>	<b>Humidity:</b>  <b>50 to 86 °F (10 to 30 °C): 95 % RH Non-condensing</b> <b>86 to 104 °F (30 to 40 °C): 75 % RH Non-condensing</b> <b>104 to 122 °F (40 to 50 °C): 45 % RH Non-condensing</b>	

**OSCILLOSCOPE MEDICAL SCOPEMETER DEVICE  
ACCESSORIES & CONSUMABLES - STARTUP**

NSN	Notes	Nomenclature	MFR PN Fluke BioMedica 1	DIST PN	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
6625016152679		Oscilloscope Medical Scopemeter Device	FBC41158 04EA		1	EA	\$4,895.00	\$4,895.00	N/A
NSN Not Required		External Battery Charger For BP290 and BP291	EBC290		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		FlukeView Software Activation Key (Card)	N/A		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		FlukeView Software for Windows	SW90W		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		Hanging Strap	946769		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		Hard Shell Protective Carrying Case	C290		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		Li-Ion Battery Pack, 4800 mAh	BP291		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		Literature, Operator's Manual	N/A		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required	See Table Below for Kit Contents	Medical Accessory Kit	MA190		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		TwistGuard™ Safety- Designed Test Leads Set (1 Red, 1 Black)	TL175		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required		USB Interface Cable for PC Connection (USB-A to Mini-USB-B)	N/A		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required	See Table Below for Set Contents	Voltage Probe Set, 10:1, 300 MHz, One Set Blue	VPS410-B		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required	See Table Below for Set Contents	Voltage Probe Set, 10:1, 300 MHz, One Set Gray	VPS410-G		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required	See Table Below for Set Contents	Voltage Probe Set, 10:1, 300 MHz, One Set Green	VPS410-V		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A
NSN Not Required	See Table Below for Set Contents	Voltage Probe Set, 10:1, 300 MHz, One Set Red	VPS410-R		1	EA	Incl w/NSN 2679	Incl w/NSN 2679	N/A

# **OSCILLOSCOPE MEDICAL SCOPEMETER DEVICE**

## **ITEM TABLES**

### **Medical Accessory Kit Contents (P/N MA190)**

Nomenclature	QTY	UI
50 Ohm BNC Feed-Through	1	EA
50 Ohm 10:1 Attenuator Feed Through	1	EA
1 Ohm Current Shunt	1	EA
50 Ohm Current Shunt	1	EA
50 Ohm Coax Cable	1	EA
Female BNC to 4 mm Banana Adapter	1	EA
Two Female to Female 4 mm Banana Plug Adapters	2	EA

### **Voltage Probe Set Components**

Nomenclature	U/I	QTY
10:1 Voltage Probe, 300 MHz (Color-coded)	1	EA
NOTE: Each Set contains a Red, Blue, Gray, or Green Voltage Probe (above) PLUS:		
Hook Clip for Probe Tip (Black)	1	EA
Ground Lead with Mini Alligator Clip (Black)	1	EA
Ground Spring for Probe Tip (Black)	1	EA
Insulation Sleeve (Black)	1	EA